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21 Dec 67

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By: Ladislav ZDM

From: Sbornik Československé Akademie Zemedelských ved
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Orig: 76

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DESCRIPTORS: Chemical analysis, *Permanganates,
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The oxidation properties of solid silver permanganate
and the oxidation-catalytic properties and absorptivity
of its thermal decomposition product were studied
with a view to their analytical application. (Author)

(Chemistry--Analytical, TT, v. 10, no. 2)

62-18984

I. Körbl, J.
II. Title: Analytical ...

Office of Technical Services

62-18985

Körbl, J.
DETERMINATION OF CARBON AND HYDROGEN IN
ORGANIC COMPOUNDS. Pt. 2 of Analytical Applica-
tions of Silver Permanganate. 23 July 62 [12p. 22 refs.
Order from SLA \$1.60 62-18985

Trans. of [Zhurnal Khimicheskoykh Khimicheskikh
Rabot] 1955, v. 20, p. 957-960.

DESCRIPTORS: Chemical analysis, Determination,
*Carbon, *Hydrogen, Organic compounds, Pyrolysis,
*Silver compounds, *Permanganates, Catalysts,
Absorption, Nitrogen, Dioxides, Halogens, Sulfur.

The thermal decomposition product of silver perman-
ganate is used as a combustion catalyst in the deter-
mination of carbon and hydrogen in organic compounds.
The filling also fixes halogens and sulfur dioxide. The
catalytic combustion, which proceeds at relatively low
(Chemistry--Analytical, TT, v. 10, no. 2) (over)

I. Körbl, J.
II. Title: Analytical...

Office of Technical Services

62-13987

Korbl, J.
DETERMINATION OF CARBON AND HYDROGEN
USING A SHORT CATALYTIC FILLING IN THE
COMBUSTION TUBE. Pt. 3 of Analytical Applications
of Silver Permanganate. 30 July 62 [11]p. 12 refs.
Order from SLA \$1.60 62-13987

Trans. of [Zhurnal Obshchei i Prikladnoi Khimicheskoykh
Rabot] 1960, v. 33, p. 1026-1031.

DESCRIPTORS: Chemical analysis, Combustion cham-
bers, Determination, *Carbon, *Hydrogen, *Silver
compounds, *Pyrolysis, *Permanganates, Reaction
kinetics, *Catalysts.

The semimicrodetermination of carbon and hydrogen,
using a 3.5 cm contact layer, is described. (Author)

(Chemistry--Analytical, TT, v. 10, no. 2)

I. Korbl, J.
II Title: Analytical ...

Office of Technical Services

Köhl, J. and Blabolil, K. MICRODETERMINATION OF CARBON AND HYDROGEN. Pt. 4 of Analytical Applications of Silver Permanganate. 14 Aug 62 [6]p. 7 refs. Order from SLA \$1.10 Trans. of (Sbornik Chetkovskoyatskykh Khimicheskikh Rabot) 1956, v. 21, p. 318-320. DESCRIPTORS: *Microanalysis, *Carbon, *Hydrogen, Organic compounds, Silver compounds, Permanganates, Catalysts, Absorption, Halogens, Sulfur, Reaction kinetics. The short catalytic combustion-tube filling, with some modifications, was used for the microdetermination of carbon and hydrogen in organic compounds. (Author) (Chemistry--Analytical, TT, V. 10, no. 1)	62-18968 I. Köhl, J. II. Blabolil, K. III. Title: Analytical ... Office of Technical Services
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Körbl, J. and Pribil, R.
COMPLEXOMETRIC DETERMINATION OF OXIDIZ-
ABLE SULFUR AS MANGANESE (II) SULFATE. Pt. 5
of Analytical Applications of Silver Permanganate.
9 Aug 62 [8]p. 14 refs.
Order from SLA \$1.10

62-18989

Trans. of [Sbornik Chechoslovatskykh Khimicheskikh
Rabot] 1956, v. 21, p. 322-325.

DESCRIPTORS: *Sulfur, Chemical analysis, Complex
compounds, *Manganese compounds, Sulfates, Ad-
sorbents, *Silver compounds, Permanganates.

A complexometric method for determining oxidizable
sulfur after absorption of SO_2 in the thermal decompo-
sition product of Ag_2MnO_4 has been developed. SO_2 is
absorbed quantitatively in the form of Ag_2SO_4 and
 MnSO_4 . By reaction with H_2O_2 and MnO_2 , the Ag_2SO_4 is
converted to an equivalent amount of MnSO_4 , which is
then determined complexometrically. (Author) (See also
62-18988)

62-18989

I. Title: Complexometric
analysis

I. Körbl, J.

II. Pribil, R.

III. Title: Analytical ...

(Chemistry--Analytical, TT,
v. 9, no. 12)

Office of Technical Services

Smrcek, K. and Barton, K.
CORROSION STUDIES. IV. ELECTROCHEMICAL
AND CORROSION KINETIC STUDIES OF ZINC IN
WATER. 7 Oct 59 (22)p. 18 refs.
Order from SLA \$2.60

61-16773

Trans. of [Sbornik Chetkholovatskykh Khimicheskikh
Rabot] 1958, v. 21, p. 339-348.

DESCRIPTORS: *Zinc, *Corrosion, Electrochemistry,
Corrosion research, Water.

The electrochemical and corrosion kinetic behavior of
zinc in water of different kinds was investigated be-
tween 20°C and 95°C. An increase of potential of Zn was
observed at 80°C in the tap water, feed water and dis-
tilled water, which can be explained by the change in
the characteristics of the corrosion products and by the
change in the depolarization mechanism of the cathodic
process. In the synthetic water the potential increase
has not been observed. Different reaction mechanisms
(Metallic Corrosion, TT, v. 6, no. 8) (over)

61-16773

I. Smrcek, K.
II. Barton, K.
III. Title: Electrochemical...

160497

Office of Technical Services

Corrosion Study V. Mechanism of Chemical Passivation
and Corrosion of Metals, by M. Franek, V. Franek,
13 pp.

KURSTAN, bk, ~~Shornik Chemoslovsk Erim Report~~,
Vol XXI, 1956, pp 564-570. 9605518

FID-TT-68-1721

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Aug 63

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The Decomposition of Penicillin in Acid
Solutions, by E. Krejci, 18 pp.
CZECH, par, Sbornik Chekhoslovatskykh Khimiches-
kykh Rabot, Vol XXI, 1956, pp 707-717.
CFSTI TT-64-18551

Sci - B/M
Jul 66

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62-18990

Körbl, J. and Pribil, R.
A SIMPLE AND RAPID METHOD FOR DETECTING
ELEMENTS IN ORGANIC COMPOUNDS. Pt. 6 of
Analytical Applications of Silver Permanganate.
16 Aug 62 [9]p. 21 refs.
Order from SLA \$1.10

62-18990

Trans. of [Sbornik Chetkhozovatskykh Khimicheskikh
Rabot] 1956, v. 21, p. 933-938.

DESCRIPTORS: Chemical analysis, *Chemical
elements, Detection, *Microanalysis, Carbon, *Inor-
ganic substances, Pyrolysis, *Organic compounds,
Permanganates, Silver compounds, Reaction kinetics.

A simple micro method has been developed for the
detection of carbon, hydrogen, mercury, nitrogen,
chlorine, bromine, iodine, sulfur, phosphorus, and
arsenic in organic materials. A 0.1-1 mg sample.
(Chemistry-Analytical, TT, v. 10, no. 2) (over)

I. Körbl, J.
II. Pribil, R.
III. Title: Analytical ...

Office of Technical Services

Petrovsky, V. and Huka, M.
COMPLEXOMETRIC TITRATIONS (CHELATOMETRY).
XXII. Volumetric Determination of Iron, Aluminum and
Titanium in Silicates (Komplexometrische Titrationen
(Chelatometrie)). 19 Nov 57. 12p. 24 refs.
Order from SLA \$1.60

59-15439

Trans. of [Sbornik Chemicko-technickych
Rabot] 1957, v. 22, Feb. p. 37-62 (also published in
Chem[ické] Listy (Czechoslovakia) 1956, v. 50,
p. 1103ff).

DESCRIPTORS: *Titration, *Iron, *Aluminum,
*Titanium, Determination, Colorimetric analysis,
Chemical analysis.

Iron, aluminum and titanium can be determined chela-
tometrically by back-titration of excess complexon in
neutral medium with copper salt against pyrocatechol
violet. After titration of iron against sulfo-salicylic acid
and colorimetric determination of titanium, the alumi-
(Chemistry-Analytical, TT, v. 6, no. 5) (over)

59-15439

I. Petrovsky, V.
II. Huka, M.
III. Titler Volumetric ...

18041 i

Office of Technical Services

Organosilicon Compounds. VIII. Carbon and
Hydrogen Determination in Organosilicon
Compounds, by J. Kotal, R. Komars, 19 p.

CZECH, per, Sbornik Chemickeholetelskykh
Khim Rabot, 1957, Vol XXII.

ELA 59-15733

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Vol 2, No 6

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Chemical Reactions of Synthetic Polymers, by W. Kern,
23 p.

CZECH, per, Sbornik Chemicko-technologicko-
Rabot, 1957, p Vol XXII, pp 126-140.

SLA 60-10075

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Complexometric Titrations (Chelatometry). XXIII.
Determination of Lead Against Brilliant Congo Blue in
Unbuffered Medium, by J. Vrestal, S. Kotrly, 12 pp.

CEJCH, per, Sbornik Czechoslovatskykh Khimicheskikh
Rabot, Vol XXII, Feb 1957, pp 189-194.

SLA 59-15421

Sci
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Vol 2, No 5

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Complexometry in Organic Analysis II. Determination of ~~amino~~
Amino Acids and Peptides, by B. Budessinsky, 10 pp.

CZECH, per, Sbornik Czechoslovatskykh Khimicheskyykh
Rabot, Vol XXII, Feb 1957, pp 230-235.

SIA 59-15420

Sci
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Vol 2, No 5

103,633

Complexometry in Organic Analysis III. Determination
of Quaternary Ammonium Salts, by B. Budesinsky, 12 pp

Czech, per, Sbornik Československých Klinických
Prací, Vol XXII, 1957, pp 236-241.

SIA 59-15427

Sci

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Vol 2, No 5

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Colorimetric Determination of Cobalt With
 α -Purilmonoxime, by Martinek, V. Novotna, 12 p.

CZECH, per, Zhurnal Khimicheskoykh Khim. Rabot,
1957, Vol XIII, pp 246-252.

SLA 79-15768

Sci
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Vol 2, No 6

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Organometallic Compounds From the Standpoint of
Macromolecular Synthesis, by K. Ziegler, 14 pp.

CHIMIA, per, Sbornik Československých Chemických
Prací, Vol XIII, 1977, p 295.

SLA 60-10778

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Sci
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Vol XIII, No5

Quantitative Organic Analysis. VIII.
Micro-Determination of Sulfur in Organic
Compounds. The Formation Mechanism of
Silver Sulfate, by M. Vecera, D. Snobl,
11 pp.

RUSSIAN, per, Sbornik Chekhoslovatskikh
Khim Rabot, Vol XXII, 1957, pp 986-993.

SLA 60-14381

Sci
Mar 62
Vol IV, No 2,

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